

Bureau of Reclamation *De Novo* Part 417 Review

Submission of Materials by Imperial Irrigation District
(Boxes 1 through 23)

Date Submitted: May 29, 2003

Box No.	Item No.	Description	Page Count
4	1	June 1955 publication of State Water Resource Board, titled Bulletin No. 2, Water Utilization and Requirements of California, Volume 1, Text	221
4	2	August 1970 publication of Colorado River Board of California, titled Need for Controlling Salinity of the Colorado River	99
4	3	November 2000 Coachella Valley Draft Water Management Plan	277
4	4	November 1999 Final Program and Construction Report of Imperial Irrigation District and Metropolitan Water District of Southern California, Water Conservation Program	133
4	5	September 1996 Feasibility Level Engineering for Facilities to Transfer Water from the Imperial Irrigation District, prepared by Black & Veatch	598
4	6	October 1986 Final Environmental Impact Report (EIR) proposed Water Conservation Program and Initial Water Transfer, Imperial Irrigation District	286
4	7	September 30, 2002 letter from Bruce Williams of Bureau of Reclamation to California Water Users re Colorado River Water Use Monthly Forecast enclosing estimates of 2002 water use.	3
4	8	November 14, 2002 letter from Terrance Fulp of Bureau of Reclamation to All Lower Basin States and Other Interested Parties re Colorado River Water Use Monthly Forecast, enclosing estimates of 2002 consumptive water use.	16

Bureau of Reclamation *De Novo* Part 417 Review
Submission of Materials by Imperial Irrigation District
(Boxes 1 through 23)

Date Submitted: May 29, 2003

Box No.	Item No.	Description	Page Count
4	9	December 26, 2002 letter from Terrance Fulp of Bureau of Reclamation to All Lower Basin States and Other Interested Parties re Colorado River Water Use Monthly Forecast, enclosing estimates of 2002 consumptive water use.	17
4	10	December 3, 2002 letter from Terrance Fulp of Bureau of Reclamation to All Lower Basin States and Other Interested Parties re Colorado River Water Use Monthly Forecast, enclosing estimates of 2002 consumptive water use.	17
4	11	January 1992 through December 2002 Sediment Samples, All American Canal (Provisional)	131
4	12	Randy Stocker's thoughts on selenium	1
4	13	November 25, 1995 Bureau of Reclamation Jensen Report	5
4	14	Draft Environmental Impact Report (EIR), Proposed Water Conservation Program and Initial Water Transfer, Imperial Irrigation District	434
4	15	Not Used	
4	16	September 1977 Initial Planning Analysis of Selected Mid-Lateral Reservoir Sites, Imperial Irrigation District, Water Resources Unit	140
4	17	Summary of unpublished USGS report on selenium, "Processes Controlling Selenium and Other Constituents in Irrigation, Drainwater and Their Effects on Wildlife of the Salton Sea Area, Imperial County, California 1986-90."	15

Bureau of Reclamation *De Novo* Part 417 Review

Submission of Materials by Imperial Irrigation District
(Boxes 1 through 23)

Date Submitted: May 29, 2003

Box No.	Item No.	Description	Page Count
4	18	October 2001 Final, 2000 Urban Water Management Plan for Imperial Irrigation District and the Cities of Brawley, Calexico, and El Centro, by Imperial Irrigation District Technical Resources and Planning	116
4	19	Not Used	
4	20	April 1987 Revised Supplemental Data on Water Operations, Imperial Irrigation District, by Bookman-Edmonston Engineering, Inc.	76
4	21	1996-1997 Daily Crop Evapotranspiration Computed by the IIDKc96H.WB1 spreadsheet for Imperial Irrigation District, by R.G. Allen	274
4	22	August 22, 1995 Final Report, Water Use Assessment of the Imperial Irrigation District, by Marvin E. Jensen	90
4	23	Not Used	
4	24	Not used	
4	25	August 2, 2000 Imperial Irrigation District Salinity Assessment Vehicle Project by David Bradshaw	1
4	26	February 27, 1998 letter from Michael Clinton of Imperial Irrigation District to Terry Reed of Bureau of Land Management re possible exchange of Federal lands on Palo Verde Mesa for desert and wilderness lands owned by Catellus Development Corporation	7
4	27	U.S. Geological Survey report titled Physical, Chemical, and Biological Data for Detailed Study of Irrigation Drainage in the Salton Sea Area, California, 1988-90	187

Bureau of Reclamation *De Novo* Part 417 Review
Submission of Materials by Imperial Irrigation District
(Boxes 1 through 23)

Date Submitted: May 29, 2003

Box No.	Item No.	Description	Page Count
4	28	Publication titled Efficient Irrigation, You Can Plant More Land with Less Water, by John L. Merriam, CA Polytechnic State University.	52
4	29	Publication titled Assessing irrigation/drainage/salinity management using spatially referenced salinity measurements, by J.D. Rhoades, S.M. Lesch, R.D. LeMert, and W.J. Alves, reprinted from Agricultural Water Management 35 (1977) 147-165	22
4	30	April 1974 publication titled Physical and Chemical Properties of Major Imperial Valley Soils by Eugene Perrier, Arnold MacKenzie, and Robert Zimmerman	34
4	31	December 1994 publication titled Alfalfa Water Stress Management During Summer in Imperial Valley for Water Conservation by Frank Robinson, Larry Teuber, and Larry Gibbs of University of California, Davis	43
4	32	Not Used	
4	33	Not Used	
4	34	Not Used	
4	35	June 10, 1997 fax from Baryohay Davidoff of Department of Water Resources to Elsdon Grubaugh of IID transmitting data re Irrigation Efficiency and Distribution	35
4	36	January 8, 2003 fax from Tina Shields of Imperial Irrigation District to Paul Engstrand transmitting letters to Ruth Thayer dated September 9, 2002 and August 15, 2002, Jesse Silva dated July 10, 2002 and September 4, 2002.	9

Bureau of Reclamation *De Novo* Part 417 Review

Submission of Materials by Imperial Irrigation District
(Boxes 1 through 23)

Date Submitted: May 29, 2003

Box No.	Item No.	Description	Page Count
4	37	Report titled Irrigation and Drainage Management and Surface Runoff Reduction in Imperial Valley, by Khaled Bali, Mark Grismer, Richard Snyder; duration of project 3 years (September , 1995-December 31, 1998)	13
4	38	February 28, 2000 letter from John Eckhardt of Imperial Irrigation District to Khaled Bali of University of California forwarding IID staff comments to draft final report, Irrigation and Drainage Management and Surface Runoff Reduction in Imperial Valley Project	12
4	39	Not Used	
4	40	Not Used	
4	41	Not Used	
4	42	March 3, 1999 letter from Robert Johnson of Bureau of Reclamation to Jesse Silva of Imperial Irrigation District re Water Conservation Studies by University of California and meeting regarding the management of Colorado River water supplies available to California agricultural agencies.	2
4	43	January 3, 1997 letter from Khaled Bali of UCCE to Karajeh, Moellenberndt, Inouye, O'Halloran, Cox, Gonzalez, Jones, Robinson, Grismer, Snyder, Currie re January 9, 1997 Project Advisory Meeting-Runoff Reduction Project	5
4	44	Not Used	
4	45	June 19, 1998 fax from Khaled Bali to John Eckhardt of publication titled Water: Economics, Management and Demand, edited by Melvyn Kay, Tom Franks, and Laurence Smith.	9

Bureau of Reclamation *De Novo* Part 417 Review

Submission of Materials by Imperial Irrigation District
(Boxes 1 through 23)

Date Submitted: May 29, 2003

Box No.	Item No.	Description	Page Count
4	46	Publication titled Irrigation and Drainage Management and Surface Runoff Reduction in Imperial Valley; principal investigators Khaled Bali, Mark Grismer; cooperators Richard Snyder	14
4	47	January 28, 1947 letter from Linda Smith of Department of Water Resources to John Buckley of Imperial Irrigation District forwarding one fully executed copy of the DWR Agreement No. 165574	26
4	48	February 16, 1996 fax from Fawzi Karajeh of Department of Water Resources to Tim O'Halloran of IID transmitting draft contract between DWR and UC Regents, and the draft contract between DWR, USBR and IID.	9
4	49	Cover sheet signed by Khaled Bali of University of California with attached November 7, 1997 letter of Carol Berman of University of California to Fawzi Karajeh of Department of Water Resources forwarding October 28, 1997 letter from Khaled Bali to Fawzi Karajeh with attached research proposal of "Irrigation and Draining Management and Surface Runoff Reduction in Imperial Valley; On-Farm Irrigation Management and Surface Runoff Reduction"	15
4	50	Not Used	

Bureau of Reclamation *De Novo* Part 417 Review
Submission of Materials by Imperial Irrigation District
(Boxes 1 through 23)

Date Submitted: May 29, 2003

Box No.	Item No.	Description	Page Count
4	51	<p>Misc Literature</p> <p>Publication titled Modeling Deficit Irrigation in Alfalfa Production, by Tayfur, Tanji, House, Robinson, Teuber, and Kruse</p> <p>Draft publication titled Management of Surface Irrigation Systems in Heavy Clay Soils, by Bali and Grismer</p> <p>Publication titled Field Procedure Helps Calculate Irrigation Time for Cracking Clay Soils, by Grismer and Tod</p> <p>October 12, 1995 fax from K. Bali re Tim at IID transmitting publication titled California Low Desert's Alfalfa Crop Coefficients, by Bali, Snyder, Guerrero</p> <p>Publication titled Elimination of Irrigation Efficiencies, by Willardson, Allen, and Frederiksen</p> <p>Publication titled Availability of Colorado River Water for Transfer in Southern California, by Bali and Gonzalez</p>	53
4	52	December 31, 1999 letter from Khaled Bali of University of California to Baryohay Davidoff of Department of Water Resources forwarding draft final report, Contract No. B80560, Irrigation and Drainage Management and Surface Runoff Reduction in Imperial Valley	75
4	53	Not Used	
4	54	Water Conservation Advisory Board meeting notice of June 11, 1998 meeting	3

Bureau of Reclamation *De Novo* Part 417 Review

Submission of Materials by Imperial Irrigation District
(Boxes 1 through 23)

Date Submitted: May 29, 2003

Box No.	Item No.	Description	Page Count
4	55	February 4, 1998 letter from Stephen Jones of Bureau of Reclamation to Khaled Bali of University of California re fourth draft of paper	3
4	56	February 5, 1998 letter from Stephen Jones of Bureau of Reclamation to Fawzi Karajeh of Department of Water Resources re Runoff Reduction Demonstration Project and objectives not yet achieved	2
4	57	October 30, 1995 letter from Jesse Silva to Fawzi Karajeh of Department of Water Resources re funding in support of study proposal: Irrigation and Drainage Management and Surface Runoff Reduction in Imperial Valley	1
4	58	July 3, 1995 letter from Khaled Bali of University of California to Tim O'Halloran of Imperial Irrigation District re attaching revised draft of proposal re Irrigation and Drainage Management and Surface Runoff Reduction in Imperial Valley	13
4	59	Fax from Steve ____ to Tim O'Halloran transmitting draft of On-Farm Irrigation Management and Surface Runoff Reduction Agreement	2
4	60	Not Used	
4	61	June 29, 1995 letter from Tim O'Halloran of Imperial Irrigation District to Khaled Bali re comments on draft proposal and Executive Summary	2
4	62	May 2, 1997 fax from Khaled Bali of University of California to Steve Jones of Bali's May 2, 1997 letter to Fawzi Karajeh, Tim O'Halloran, and Steve Jones transmitting draft of third progress report re Runoff Reduction Project	8

Bureau of Reclamation *De Novo* Part 417 Review
Submission of Materials by Imperial Irrigation District
(Boxes 1 through 23)

Date Submitted: May 29, 2003

Box No.	Item No.	Description	Page Count
4	63	December 3, 1997 letter from Khaled Bali of University of California to Fawzi Karajeh, Eldon Moore, and Steve Jones transmitting draft of fourth progress report re Runoff Reduction Project	32
4	64	December 3, 1997 letter from Khaled Bali of University of California to Fawzi Karajeh, Eldon Moore, and Steve Jones forwarding draft of fourth progress report re Runoff Reduction Project	30
4	65	December 29, 1997 letter from Steve Knell to Khaled Bali of University of California re comments to fourth draft report of the Runoff Reduction Project	5
4	66	December 24, 1997 fax from Fawzi Karajeh of Department of Water Resources to Steve Knell of IID transmitting draft December 17, 1997 letter from Karajeh to Khaled Bali re second annual report of the project entitled Irrigation and Drainage Management and Surface Runoff Reduction in Imperial Valley, DWR Contract No. B80560	3
4	67	September 1995 draft Agricultural Drainage Reduction and Water Reuse Program by Fawzi Karajeh	1
4	68	November 7, 1997 letter from Carol Berman of University of California to Fawzi Karajeh of Department of Water Resources forwarding copy of proposal entitled Irrigation and Drainage Management and Surface Runoff Reduction in Imperial Valley; On-Farm Irrigation Management and Surface Runoff Reduction.	14
4	69	June 18, 1989 fax from Fawzi Karajeh of Department of Water Resources to John Eckhardt of IID transmitting Contract No. B-80560	20

Bureau of Reclamation *De Novo* Part 417 Review

Submission of Materials by Imperial Irrigation District
(Boxes 1 through 23)

Date Submitted: May 29, 2003

Box No.	Item No.	Description	Page Count
4	70	February 16, 1996 fax from Fawzi Karajeh of Department of Water Resources to Tim O'Halloran of IID transmitting draft contract between DWR, USBR, and IID for review.	9
4	71	November 7, 1997 letter from Carol Berman of University of California to Fawzi Karajeh of Department of Water Resources forwarding copy of proposal entitled Irrigation and Drainage Management and Surface Runoff Reduction in Imperial Valley; On-Farm Irrigation Management and Surface Runoff Reduction	14
4	72	November 26, 1997 notice of agenda from Khaled Bali of UCCE to Karajeh, Moellenberndt, Inouye, O'Halloran, Cox, Burch, Vevsey, Gonzalez, Jones, Robinson, Grismer, Snyder, Currie re December 4, 1997 Project Advisory Meeting-Runoff Reduction Project	3
4	73	May 2, 1997 fax from K. Bali of University of California to Tim O'Halloran transmitting May 2, 1997 cover letter and draft of third progress report for Runoff Reduction Project	6
4	74	January 28, 1997 letter from Linda Smith of Department of Water Resources to John Buckley of Imperial Irrigation District forwarding one fully executed copy of DWR Agreement No. 165574	27
4	75	April 24, 1998 fax from Mark Stutes of University of California to Steve Burch of IID transmitting notice of agenda from Khaled Bali of UCCE to Karajeh, Moellenberndt, Inouye, Knell, Cox, Burch, Vevsey, Gonzalez, Jones, Robinson, Grismer, Snyder, Currie re May 21, 1998 Project Advisory Meeting-Runoff Reduction Project	5

Bureau of Reclamation *De Novo* Part 417 Review
Submission of Materials by Imperial Irrigation District
(Boxes 1 through 23)

Date Submitted: May 29, 2003

Box No.	Item No.	Description	Page Count
4	76	Fax from David Bradshaw to John Eckhart transmitting August 12, 1998 letter from Khaled Bali of UCCE to Davidoff, Karajeh, Moellenberndt, Inouye, Knell, Cox, Burch, Vevsey, Gonzalez, Jones, Robinson, Grismer, Snyder, Currie re Runoff Reduction Project and looking at alfalfa roots before disc the field	1
4	77	July 13, 1998 memorandum from David Bradshaw of Imperial Irrigation District to John Eckhardt re comments on Availability of Colorado River Water for Transfer in Southern California, Implementation of Tailwater Return Systems	1
4	78	July 13, 1998 memorandum from David Bradshaw of Imperial Irrigation District to John Eckhardt re comments on draft Progress Report-Runoff Reduction Project (Fourth Progress Report)	1
4	79	July 13, 1998 memorandum from David Bradshaw of Imperial Irrigation District to John Eckhardt re comments on effects of water management on water value relative to alfalfa yield	1
4	80	Not Used	
4	81	Not Used	
4	82	June 18, 1998 fax from Fawzi Karajeh of Department of Water Resources to John Eckhardt of IID transmitting copy of Contract No. B-80560	20
4	83	June 12, 1998 Progress Report re Contract No. B-80560, Irrigation and Drainage Management and Surface Runoff Reduction in Imperial Valley, by Khaled Bali, Mark Grismer, and Richard Snyder	13

Bureau of Reclamation *De Novo* Part 417 Review
Submission of Materials by Imperial Irrigation District
(Boxes 1 through 23)

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Box No.	Item No.	Description	Page Count
4	84	Letter from Gary Bryant of Bureau of Reclamation to Gerald Zimmerman of Colorado River Board of California re additional information re salinity and flow issues at SIB	2
4	85	Publication titled Salt Distributions in Cracking Soils and Salt Pickup By Runoff Waters, by Rhoades, Lesch, Burch, Letey, LeMert, Shouse, Oster, and O'Halloran	6
4	86	1994 Annual Report of the Colorado River Basin Salinity Control Program	22
4	87	1996 Annual Report on the Colorado River Basin Salinity Control Program	10
4	88	1999 Annual Report on the Colorado River Basin Salinity Control Program	23
4	89	January 1-December 31, 1998 Report on Salinity Operations on the Colorado River Under Minute No. 242, by John M. Bernal	13
4	90	October 31, 1994 Report re Assessment of the Lower Colorado River Accounting System, by Marvin E. Jensen	1
4	91	October 1998 Report, Coefficients for Vegetative Evapotranspiration and Open Water Evaporation for the Lower Colorado River Accounting System	1
4	92	July 15, 1996 Final Draft Report, Coefficients for Vegetative Evapotranspiration and Open Water Evaporation for the Lower Colorado River Accounting System	1

Bureau of Reclamation *De Novo* Part 417 Review
Submission of Materials by Imperial Irrigation District
(Boxes 1 through 23)

Date Submitted: May 29, 2003

Box No.	Item No.	Description	Page Count
4	93	June 16, 2000 letter from Anisa Divine of Imperial Irrigation District to Paul Matuska re LCRAS Demonstration of Technology Reports	1
4	94	June 12, 2001 letter from Charles VanDyke of Palo Verde Irrigation District to Robert Johnson of Bureau of Reclamation re Lower Colorado River Accounting System	1
4	95	June 19, 1997 memo to file re Telephone conversation with Khaled Bali related to a request for data related to his project titled Irrigation and Drainage Management and Surface Runoff Reduction in Imperial Valley Project	1
4	96	September 13, 1995 fax from Khaled Bali of University of California to Tim O'Halloran transmitting September 12, 1995 letter of Khaled Bali to Karajeh, Moellenberndt, Inouye, O'Halloran, Gonzalez, Jones, and Robinson re proposal for possible funding re Irrigation and Drainage Management and Surface Runoff Reduction in Imperial Valley	1
4	97	November 17, 1998 report by U.S. Bureau of Reclamation, Improving the Salinity of Flows at the Southerly International Boundary, Reconnaissance Level Study	45
4	98	Report, Improving the Salinity and Consistency of Flows at the Southerly International Boundary with Mexico	29

Bureau of Reclamation *De Novo* Part 417 Review

Submission of Materials by Imperial Irrigation District
(Boxes 1 through 23)

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Box No.	Item No.	Description	Page Count
4	99	Report, Achieving 1200 PPM at SIB for Four Months of the Year, with attached November 19, 1998 report, Improving the Salinity of Flows at the Southern International Boundary for Four Months of the Year, Status Evaluation, by Bureau of Reclamation	19
4	100	October 24, 1995 fax from Pat Martin at University of California to Tim O'Halloran transmitting October 24, 1995 letter from Khaled Bali of University of California to Tim O'Halloran at Imperial Irrigation District	2
4	101	Not Used	
4	102	Not Used	
4	103	June 22, 1998 Progress Report, Contract No. B-80560, Irrigation and Drainage Management and Surface Runoff Reduction in the Imperial Valley, by Khaled Bali, Mark Grismer, and Richard Snyder	12
4	104	Publication titled Economic Evaluation of Irrigation with Saline Water Within the Framework of a Farm, Methodology and Empirical Findings: A Case Study of Imperial Valley, California, by Charles V. Moore	8